

Title (en)  
PLANTS AND PLANT CELLS ENCODING THE WILDTYPE COP1 GENE AND THE COIL DOMAIN THEREOF

Title (de)  
PFLANZEN UND PFLANZENZELLEN KODIEREND FÜR DAS WILTYP COP1 GEN UND SEINE KNÄUELREGION

Title (fr)  
VEGETAUX ET CELLULES VEGETALES CODANT POUR LE GENE COP1 DE TYPE SAUVAGE ET POUR LE DOMAINE COIL DE CELUI-CI

Publication  
**EP 1117819 A1 20010725 (EN)**

Application  
**EP 99969745 A 19990927**

Priority

- US 9922403 W 19990927
- US 10199298 P 19980928

Abstract (en)  
[origin: WO0018940A1] This invention relates to seedlings which demonstrate better emergence characteristics when grown in darkness and improved seedling growth when grown under low-light levels. More specifically, the present invention relates to producing plant cells and whole plants which contain a nucleic acid sequence coding for the Coil domain as well as the sequence coding for the wildtype COP1 gene. The plants of this invention display unopened, compact leaves during seedling emergence in the darkness and reduced etiolation of seedlings grown in low-levels after emergence. The invention further relates to plant breeding methods which enable the transfer of these desirable traits to wildtype plants.

IPC 1-7  
**C12N 15/82**; **C12N 15/29**; **C12N 5/10**; **A01H 5/00**; **C07K 14/415**

IPC 8 full level  
**A01H 5/00** (2006.01); **C07K 14/415** (2006.01); **C12N 5/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/29** (2006.01); **C12N 15/82** (2006.01); **C12R 1/91** (2006.01)

CPC (source: EP US)  
**C07K 14/415** (2013.01 - EP US); **C12N 15/8261** (2013.01 - EP US); **C12N 15/8267** (2013.01 - EP US); **Y02A 40/146** (2017.12 - EP US)

Citation (search report)  
See references of WO 0018940A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0018940 A1 20000406**; **WO 0018940 A9 20000908**; AU 1198600 A 20000417; CA 2343717 A1 20000406; CN 1329670 A 20020102; EP 1117819 A1 20010725; JP 2002525121 A 20020813; US 2003163841 A1 20030828; US 6579716 B1 20030617; US 7081363 B2 20060725

DOCDB simple family (application)  
**US 9922403 W 19990927**; AU 1198600 A 19990927; CA 2343717 A 19990927; CN 99813828 A 19990927; EP 99969745 A 19990927; JP 2000572387 A 19990927; US 38649903 A 20030313; US 40795699 A 19990928